## WHAT IS CLAIMED IS:

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1. An electric power steering apparatus for applying an assisting steering force to a steering mechanism of a vehicle by driving an electric motor according to a steering operation performed by a steering unit for steering the vehicle, comprising:

an electric current command value calculation unit
which calculates an electric current command value by
correcting a target value of an electric current to be
made to flow in the electric motor;

a drive control unit which controls the drive of the

a convergence control unit which determines a damping compensation value, which is a correction value of the target value to be corrected by the electric current command value calculation unit, so that a quantity of steering operation performed by the steering unit is converged to a neutral point, the convergence control unit including:

a compensation electric current setting unit
which determines a basic damping compensation electric
current value corresponding to the correction value of the
target value based on a steering speed which is a changing

speed of the quantity of the steering operation and a vehicle speed, and

a compensation electric current adjusting unit
which adjusts the basic damping compensation electric

5 current value based on the steering torque given to the
steering unit and the quantity of the steering operation,
thereby calculating the damping compensation value.

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- adjusting unit adjusts the basic damping compensation and the second second
  - electric current value so that the damping compensation were a later to the

value is increased when the quantity of steering operation

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10% claim 1, wherein the compensation electric current and the compens

- . Similar increases more than the neutral point and then decreases: 1981 1981 1981
  - is not higher than a predetermined value.
  - . While 3. The electric power steering apparatus according to which the view
  - reproclaim 2, wherein the compensation electric current where we have the
  - 20 adjusting unit including:

a gain deciding unit which decides a gain with respect to the basic damping compensation electric current value based on the quantity of operation and the steering torque, and

a multiplication unit which multiplies the basic

damping compensation electric current value by the gain,

thereby calculating the damping compensation value, and

wherein the gain deciding unit increases the gain

when the quantity of operation increases more than the

neutral point and decreases in a predetermined period of

time and the steering torque is not higher than a

predetermined value.

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